

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO CPI-012C8US	SERIAL NO. 09/581,861
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT James R. Broach et al.	
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>[initial]</i> A1	4,948,874	08/90	Kronvall et al.	350	350	
<i>[initial]</i> A2	5,096,815	03/92	Ladner et al.	435	69.1	
<i>[initial]</i> A3	5,283,173	02/94	Fields et al.	435	6	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>[initial]</i> A4	WO 88/10308	12/88	PCT			
<i>[initial]</i> A5	WO 91/12273	08/91	PCT			
<i>[initial]</i> A6	WO 92/05244	04/92	PCT			

OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

<i>[initial]</i> A7	Akada, R. et al. "Genetic Relationships Between the G Protein $\beta\gamma$ Complex, Ste5p, Ste20p and Cdc42p: Investigation of Effector Roles in the Yeast Pheromone Response Pathway," <i>Genetics</i> 143:103-117 (1996)
<i>[initial]</i> A8	Alison, Malcolm R. et al. "Growth factors and growth factor receptors," <i>Brit. J. of Hosp. Med.</i> 49(11):774-88 (1993)
<i>[initial]</i> A9	Altieri, Dario C. "Proteases and protease receptors in modulation of leukocyte effector functions," <i>J. of Leukocyte Biol.</i> 58:120-27 (1995)
<i>[initial]</i> A10	Artemyev, Nikolai O. et al. "Sites of Interaction between Rod G-Protein α -Subunit and cGMP-phosphodiesterase γ -Subunit," <i>J. Biol. Chem.</i> 267(35):25067-72 (1992)
<i>[initial]</i> A11	Awramik, S. M. "New fossil finds in old rocks," <i>Nature</i> 319:446-47 (1986)
<i>[initial]</i> A12	Belka, C. et al. "The role of tyrosine kinases and their substrates in signal transmission of hematopoietic growth factors: a short review," <i>Leukemia</i> 9:754-61 (1995)
<i>[initial]</i> A13	Bender, Alan and Sprague, George F. Jr. "Pheromones and Pheromone Receptors Are the Primary Determinants of Mating Specificity in the Yeast <i>Saccharomyces cerevisiae</i> ," <i>Genetics</i> 121:463-76 (1989)
<i>[initial]</i> A14	Birnbaumer, Lutz "Transduction of receptor signal into modulation of effector activity by G proteins: the first 20 years or so..." <i>FASEB Journal</i> 4:3178-88 (1990)
<i>[initial]</i> A15	Blinder, Dmitry et al. "Constitutive Mutants in the Yeast Pheromone Response: Ordered function of the Gene Products," <i>Cell</i> 56:479-486 (1989)
<i>[initial]</i> A16	Brill, Julie A. et al. "A Role for Autophosphorylation Revealed by Activated Alleles of <i>FUS3</i> , the Yeast MAP Kinase Homolog," <i>Molecular Biology of the Cell</i> 5:297-312 (1994)
<i>[initial]</i> A17	Brugarolas, James et al. "Radiation-induced cell cycle arrest compromised by p21 deficiency," <i>Nature</i> 377:522-57 (1995)
<i>[initial]</i> A18	Burack, W. Richard et al. "The Activating Dual Phosphorylation of MAPK by MEK Is Nonprocessive," <i>Biochemistry</i> 36(20):5929-5933 (1997)

Examiner <i>B. Salan</i>	Date Considered <i>16/13/04</i>
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<i>JM</i>	B1	5,401,629	03/95	Harpold et al.	435	6	
<i>JM</i>	B2	5,436,128	07/95	Harpold et al.	435	6	
<i>JM</i>	B3	5,468,614	11/95	Fields et al.	435	6	

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<i>JM</i>	B4	WO 92/08740	05/92	PCT			
<i>JM</i>	B5	WO 93/10230	05/93	PCT			
<i>JM</i>	B6	EP 568,925	11/93	EPO			

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<i>JM</i>	B7	Cavallini, Bruno et al. "A yeast activity can substitute for the HeLa Cell TATA box factor," <i>Nature</i> 334:77-80 (1988)
<i>JM</i>	B8	Chambers, D. A. et al. "Neuroimmune Modulation: Signal Transduction and Catecholamines," <i>Neurochem. Int.</i> 22(2):95-110 (1993)
<i>JM</i>	B9	Chan, Russell K. and Otte, Carol A. "Isolation and Genetic Analysis of <i>Saccharomyces cerevisiae</i> Mutants Supersensitive to G1 Arrest by a Factor and a Factor," <i>Molecular and Cellular Biol.</i> 2(1):11-20 (1982)
<i>JM</i>	B10	Chang, Fred and Herskowitz, Ira "Identification of a Gene Necessary for Cell Cycle Arrest by a Negative Growth Factor of Yeast: FAR1 is an Inhibitor of a G1 Cyclin, CLN2," <i>Cell</i> 63:999-1011 (1990)
<i>JM</i>	B11	Chien, Cheng-Ting, et al. "The two-hybrid system: A method to identify and clone genes for proteins that interact with a protein of interest," <i>Proc. Natl. Acad. Sci. USA</i> 88:9578-82 (1991)
<i>JM</i>	B12	Clark, Karen L. et al. "Interactions among the Subunits of the G-protein Involved in <i>Saccharomyces cerevisiae</i> Mating," <i>Molecular and Cellular Biol.</i> 13(1):1-8 (1993)
<i>JM</i>	B13	Cole, Gary M. et al. "Stoichiometry of G Protein Subunits Affects the <i>Saccharomyces cerevisiae</i> Mating Pheromone Signal Transduction Pathway," <i>Molecular and Cellular Biology</i> 10(2):510-517 (1990)
<i>JM</i>	B14	Coleman, David E. et al. "Structures of Active Conformation of G _{ia1} and the Mechanism of GTP Hydrolysis," <i>Science</i> 265:1405-12 (1994)
<i>JM</i>	B15	Conklin, Bruce R. et al. "Substitution of three amino acids switches receptor specificity of G _{q0} to that of G _{ia0} ," <i>Nature</i> 363:274-76 (1993)
<i>JM</i>	B16	Cwirla, Steven E. et al. "Peptides on phage: A vast library of peptides for identifying ligands," <i>Proc. Natl. Acad. Sci. USA</i> 87:6378-82 (1990)
<i>JM</i>	B17	Devlin, James J. et al. "Random Peptide Libraries: A Source of Specific Protein Binding Molecules," <i>Science</i> 249:404-6 (1990)
<i>JM</i>	B18	Dietzel, Christine and Kurjan, Janet "The Yeast SCG1 Gene: A Gα-like Protein Implicated in the α- and α-Factor Response Pathway," <i>Cell</i> 50:1001-10 (1987)

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<i>MM</i>	C1 5,482,835	01/96	King et al.	435	6	
<i>MM</i>	C2 5,580,736	12/96	Brent et al.	435	6	
<i>MM</i>	C3 5,691,188	11/97	Pausch et al.	435	225.1	

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<i>MM</i>	C4 WO 94/23025	10/94	PCT			
<i>MM</i>	C5 WO 95/30012	11/95	PCT			
<i>MM</i>	C6 WO 97/11159	03/97	PCT			
<i>MM</i>	C7 WO 98/13513	04/98	PCT			

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<i>MM</i>	C8	Dmochowska, Aleksandra et al. "Yeast KEX1 Gene Encodes a Putative Protease with a Carboxypeptidase B-like Function Involved in Killer Toxin and α -Factor Precursor Processing," <i>Cell</i> 50:573-84 (1987)
	C9	Dolan, J. W. et al. "Overproduction of the yeast STE12 protein leads to constitutive transcriptional induction," <i>Genes & Development</i> 4(4):492-502 (1990)
	C10	Dubois, Patrice M. et al. "Role of the transmembrane and cytoplasmic domains of surface IgM in endocytosis and signal transduction," <i>Eur. J. Immunol.</i> 22:851-57 (1992)
	C11	Erickson, Deborah "Intercepted Messages: New biotechnology drugs target intracellular communication," <i>Scientific American</i> 267(5):122-23 (1992)
	C12	Etienne, Gilles et al. "A Screening Method for Antifungal Substances Using <i>Saccharomyces cerevisiae</i> Strains Resistant to Polyene Macrolides," <i>J. of Antibiotics</i> 43(2):199-206 (1990)
	C13	Fasullo, Michael T. and Davis, Ronald W. "Direction of Chromosome Rearrangements in <i>Saccharomyces cerevisiae</i> by Use of his3 Recombination Substrates," <i>Molecular and Cellular Biol.</i> 8(10):4370-80 (1988)
	C14	Ferrell, James E. Jr. et al. "The Biochemical Basis of an All-or-None Cell Fate Switch in <i>Xenopus</i> Oocytes," <i>Science</i> 280:895-898 (1998)
	C15	Ferrell, James E. Jr. "Tripping the switch fantastic: how a protein kinase cascade can convert graded inputs into switch-like outputs," <i>Trends In Biochem. Sci.</i> 21(12):460-6 (1996)
	C16	Fields, Stanley and Song Ok-kyu "A novel genetic system to detect protein-protein interactions," <i>Nature</i> 340:245-46 (1989)
	C17	Franke, Arthur E. et al. "Human C5a Anaphylatoxin: Gene Synthesis, Expression, and Recovery of Biologically Active Material from <i>Escherichia coli</i> ," <i>Methods in Enzymology</i> 162:653-68 (1988)
<i>MM</i>	C18	Funaro, Ana et al. "Human CD38 is associated to distinct molecules which mediate transmembrane signaling in different lineages," <i>Eur. J. Immunol.</i> 23:2407-11 (1993)

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16/3/01

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APPLICANT FACSIMILE OF FORM PTO-1448 REV 7-80		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO CPI-012C8US	SERIAL NO. 09/581,861
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	D1 5,739,029	04/98	King et al.	435	254.21	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

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	D2	Gallego, Carme et al. "Myristylation of the G _{α12} polypeptide, a G protein α subunit, is required for its signaling and transformation functions," <i>Proc. Natl. Acad. Sci. USA</i> 89:9695-99 (1992)
	D3	Garritsen, Anja et al. "The N-Terminal coiled-coil domain of β is essential for γ association: A Model for G-Protein βγ subunit interaction," <i>Proc. Natl. Acad. Sci. USA</i> 90:7706-10 (1993)
	D4	Gerard, Norma P. and Gerard, Craig "Construction and Expression of a Novel Recombinant Anaphylatoxin, C5a-N19, a Probe for the Human C5a Receptor," <i>Biochemistry</i> 29(39):9274-81 (1990)
	D5	Gordon, J. "B-cell signaling via the C-type lectins CD23 and CD72," <i>Immunology Today</i> 15(9):411-17 (1994)
	D6	Graf, Rolf et al. "A Truncated Recombinant α Subunit of G _{i3} with a Reduced Affinity for βγ Dimers and Altered Guanosine 5'-3-O-(Thio)triphosphate Binding," <i>J. of Biol. Chem.</i> 267(34):24307-14 (1992)
	D7	Gros, Philippe et al. "Mammalian Multidrug Resistance Gene: Complete cDNA Sequence Indicates Strong Homology to Bacterial Transport Proteins," <i>Cell</i> 47:371-80 (1986)
	D8	Gyuris, Jenő et al. "Cdk1, A Human G1 and S Phase Protein Phosphatase That Associates with Cdk2," <i>Cell</i> 75:791-803 (1993)
	D9	Hagen, David C. et al. "Evidence the yeast STE3 gene encodes a receptor for the peptide pheromone α factor: Gene sequence and implications for the structure of the presumed receptor," <i>Proc. Natl. Acad. Sci. USA</i> 83:1418-22 (1986)
	D10	Hall, Marcia et al. "Evidence for different modes of action of cyclin-dependent kinase inhibitors: p15 and p16 bind to kinases, p21 and p27 bind to cyclins," <i>Oncogene</i> 11:1581-88 (1995)
	D11	Harbury, Pehr B. et al. "A Switch Between Two-, Three- and Four-Stranded Coiled Coils in GCN4 Leucine Zipper Mutants," <i>Science</i> 262:1401-07 (1993)
	D12	Hartwell, Leland H. "Mutants of <i>Saccharomyces cerevisiae</i> Unresponsive to Cell Division Control by Polypeptide Mating Hormone," <i>J. Cell Biol.</i> 85:811-22 (1980)
	D13	Hasson, M. S. et al. "Mutational Activation of the STE5 Gene Product Bypasses the Requirement for G Protein β and γ Subunits in the Yeast Pheromone Response Pathway," <i>Molecular and Cellular Biology</i> 14(2):1054-1065 (1994)
	D14	He, Bin et al. "RAM2, an essential gene of yeast, and RAM1 encode the two polypeptide components of the farnesytransferase that prenylates α-actor and Ras proteins," <i>Proc. Natl. Acad. Sci. USA</i> 88:11373-77 (1991)

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M	E1	Hiltunen, J. Kalervo et al. "Peroxisomal Multifunctional β -Oxidation Protein of <i>Saccharomyces cerevisiae</i> ," <i>J. of Biol. Chem.</i> 267(10):6646-6653 (1992)
	E2	Hrycyna, Christine A. et al. "The <i>Saccharomyces cerevisiae STE14</i> gene encodes a methyltransferase that mediates C-terminal methylation of a-factor and RAS Proteins," <i>The EMBO J.</i> 10(1):1699-1709 (1991)
	E3	Huang, Chi-Ying F. et al. "Ultrasensitivity in the mitogen-activated protein kinase cascade," <i>Proc. Natl. Acad. Sci. USA</i> 93:10078-10083 (1996)
	E4	Huang, H.J. et al "Functional Expression of Rat M5 Muscarinic Acetylcholine Receptor in Yeast" <i>Biochem. Biophys. Res. Commun.</i> 182(3):1180-86 (Feb. 14, 1992)
	E5	Hughes, David A. et al. "Complementation of <i>byr1</i> in fission yeast by mammalian MAP kinase requires coexpression of Raf kinase," <i>Nature</i> 364:349-52 (1993)
	E6	Imamoto, Akira et al. "Genetics of signal transduction: tales from the mouse," <i>Curr. Opin. Gen. & Dev.</i> 4:40-46 (1994)
	E7	Inouye, Carla et al. "Ste5 RING-H2 Domain: Role in Ste4-Promoted Oligomerization for Yeast Pheromone Signaling," <i>Science</i> 278:103-106 (1997)
	E8	Jabbar, M. Abdul et al. "Influenza Viral (A/WSN/33) hemagglutinin is expressed and glycosylated in the yeast <i>Saccharomyces cerevisiae</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 82:2019-23 (1985)
	E9	Jakobs, K. H. et al. "Dual regulation of adenylate cyclase. A signal transduction mechanism of membrane receptors," <i>Basic Res. Cardiol.</i> 81:1-9 (1986)
	E10	Journot, Laurent et al. "Amino Acids 367-376 of the G _a subunit induce membrane association when fused to soluble amino-terminal deleted G _{i1} a subunit," <i>Proc. Natl. Acad. Sci. USA</i> 88:10054-58 (1991)
	E11	Julius, David et al. "Glycosylation and Processing of Prepro- α -Factor through the Yeast Secretory Pathway," <i>Cell</i> 36:309-18 (1984)
	E12	Julius, David et al. "Isolation of the Putative Structural Gene for the Lysine-Arginine-Cleaving Endopeptidase Required for Processing of Yeast Prepro- α -factor," <i>Cell</i> 37:1075-89 (1984)
	E13	Julius, David et al. "Yeast α Factor is Processed from a Larger Precursor Polypeptide: The Essential Role of a Membrane-Bound Dipeptidyl Aminopeptidase," <i>Cell</i> 32:839-52 (1983)
M	E14	Kaiser, Chris A. et al. "Many Random Sequences Functionally Replace the Secretion Signal Sequence of Yeast Invertase," <i>Science</i> 235:312-17 (1987)

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<i>JR</i>	F1	Kang, Yoon-Se et al. "Effects of expression of mammalian G _o and hybrid mammalian-yeast G _a proteins on the yeast pheromone response signal transduction pathway," <i>Molecular and Cellular Biology</i> 10(6):2582-90 (1990)
	F2	King, Klim et al. "Control of Yeast Mating Signal Transduction by a Mammalian β ₂ -Adrenergic Receptor and G _s α Subunit," <i>Science</i> 250:121-23 (1990)
	F3	Kingsman, S.M. et al. "The production of mammalian protein in <i>Saccharomyces cerevisiae</i> ," <i>Tibtech</i> 5:53-57 (1987)
	F4	Koff, Andrew et al. "Human Cyclin E, a New Cyclin That Interacts with Two Members of the CDC2 Gene Family," <i>Cell</i> 66:1217-28 (1991)
	F5	Kosugi, Shinji et al. "Characterization of heterogeneous mutations causing constitutive activation of the luteinizing hormone receptor in familial male precocious puberty," <i>Human Molecular Genetics</i> 4(2):183-88 (1995)
	F6	Kramer, R. A. et al. "HTLV-III gag Protein Is Processed in Yeast Cells by the Virus pol-Protease," <i>Science</i> 231:1580-85 (1986)
	F7	Kuchler, Karl and Thorner, Jeremy "Functional expression of human <i>mdr1</i> in the yeast <i>Saccharomyces cerevisiae</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 89:2302-06 (1992)
	F8	Kuchler, Karl et al. "Saccharomyces cerevisiae STE6 gene product: a novel pathway for protein export in eukaryotic cells," <i>The EMBO J.</i> 8(13):3973-84 (1989)
	F9	Kurjan, Janet "α-Factor Structural Gene Mutations in <i>Saccharomyces cerevisiae</i> : Effects on α-Factor Production and Mating," <i>Molecular and Cellular Biol.</i> 5(4):787-96 (1985)
	F10	Kurjan, Janet and Herskowitz "Structure of a Yeast Pheromone Gene (<i>MFα</i>): A Putative α-Factor Precursor Contains Four Random Copies of Mature α-Factor," <i>Cell</i> 30:933-43 (1982)
	F11	Lambright, David G. et al. "Structural determinants for activation of the α-subunit of a heterotrimeric G protein," <i>Nature</i> 369:621-28 (1994)
	F12	Leberer, Ekkehard et al. "Dominant-negative mutants of a yeast G-protein β subunit identify two functional regions involved in pheromone signaling," <i>The EMBO J.</i> 11(13):4805-13 (1992)
	F13	Lee, Ethan et al. "The G22A Mutant of G _{so} Highlights the Requirement for Dissociation of G Protein Subunits," <i>J. Biol. Chem.</i> 267(2):1212-18 (1992)
<i>JR</i>	F14	Lemire, Bernard D. et al. "The Mitochondrial Targeting Function of Randomly Generated Peptide Sequences Correlates with Predicted Helical Amphiphilicity," <i>J. Biol. Chem.</i> 264(34):20206-12 (1989)

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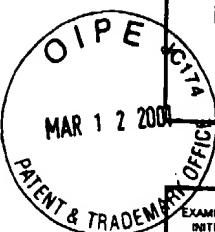
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G1	Lew, Daniel J. et al. "Isolation of Three Novel Human Cyclins by Rescue of G1 Cyclin (Cln) Function in Yeast," <i>Cell</i> 66:1197-1206 (1991)
G2	Linder, Maurine E. and Gilman, Alfred G. "G Proteins," <i>Scientific American</i> 267(1):56-65 (1992)
G3	Linder, Maurine E. et al. "Lipid Modifications of G Protein Subunits: Myristylation of G _o Increases its Affinity for βγ," <i>J. Biol. Chem.</i> 266(7):4654-59 (1991)
G4	Lupas, Andrei N. et al. "Do G protein subunits associate via a three-stranded coiled coil?" <i>FEBS</i> 314(2):105-08 (1992)
G5	Mackay, Vivian and Manney, Thomas R. "Mutations Affecting Sexual Conjugation and Related Processes in <i>Saccharomyces cerevisiae</i> . II Genetic Analysis of Nonmating Mutants," <i>Genetics</i> 76:273-88 (1974)
G6	Marengere, Luc E.M. and Pawson, Tony "Structure and function of SH2 domains," <i>J. Cell Science Suppl.</i> 18:97-104 (1994)
G7	Markby, David W. et al. "Separate GTP Binding and GTPase Activating Domains of a Gα Subunit," <i>Science</i> 262:1895-1901 (1993)
G8	Michaelis, Susan and Herskowitz, Ira "The α-Factor Pheromone of <i>Saccharomyces cerevisiae</i> is Essential for Mating," <i>Molecular and Cellular Biol.</i> 8(3):1309-18 (1988)
G9	Milano, C.A. et al. "Enhanced Myocardial Function in Transgenic Mice Overexpressing the β ₂ -Adrenergic Receptor," <i>Science</i> 264:582-86 (1994)
G10	Milburn, Michael V. et al. "Molecular Switch for Signal Transduction: Structural Differences Between Active and Inactive Forms of Protooncogenic ras Proteins," <i>Science</i> 247:939-45 (1990)
G11	Mumby, Susanne M. et al. "G-Protein α-subunit expression, myristylation, and membrane association in COS cells," <i>Proc. Natl. Acad. Sci. USA</i> 87:728-32 (1990)
G12	Murphy, A.J.M. et al. "Autocrine Stimulation of Yeast through Human G-Coupled Receptors," <i>J. Cell Biochem.</i> 18B:224 (1994)
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APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO CPI-012C8US	SERIAL NO. 09/581,861
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